THE

FOUNDRY TRADE JOURNAL

(with which is incorporated THE IRON AND STEEL TRADES JOURNAL)

ESTABLISHED 1902

INDEX TO VOLUME LV

July to December, 1936

Head Office:
49, Wellington Street, London, W.C.2

Index to Volume LV

SUBJECT INDEX

A

Aerial Ropeways, Short, 313.
Air-Borne Dust, Collection and Analysis of, 122.
Air-Compressor Explosions, 491.
Airless Sand-Blasting, 43.
Airless Shot Blasting, Developments of, 437.
Alloy Cast Irons, Discussion on, 164.
Alloy Steel, Physical Properties of High-Chromium Cast, 249.
Alloy Steels, Phosphorus in, 369.
Aluminium for Art Metal Work, 388.
Aluminium, Material Specification, 43.
American Foundrymen's Association, Reorganisation of, 488.
Andrew Carnegie Research Fund, 134.
Art Metal Work, Aluminium for, 388.

B

Baby Cupola, 200.
Belgian Steelfoundry Sand for Cast Iron, 503.
Beryllium, Case Hardening of Grey Iron by, 222.
Blast-Furnacemen's Working Hours, 270.
Bonding Agents in Moulding Sand, Estimation of, 250.
British Cast Iron Research Association, Annual Meeting, 369.
British Cast Iron Research Association, Annual Report, 349.
British Foundry School, Annual Meeting, 103.
British Foundry School's Scottish Visit, 14.
British Ironfounders' Association, Annual Dinner, 447.
British Oxygen Company, Pension Scheme, 459.

C

Camber in Large Lathe-Bed Castings, 155.
Capillarity as a Factor in Foundry Practice, 28, 80.
Carbon and Molybdenum Steels at High Temperatures, 105.
Case Hardening of Grey Iron by Beryllium, 222.
Cast Cam and Crankshafts, 411.
Cast Iron and Its Present Position as a Material of Construction, 247.
Cast Iron, Fatigue of, 9.
Cast Iron for Vitreous Enamelling, 12.
Cast Iron in the Chemical Industry, Use of, 25.
Cast-Iron Pipes, Manufacture of, 195.
Cast-Steel Screw, Nickel Chromium-Molybdenum, 94.
Casting Stresses in Chilled Iron Rolls, Studies of, 252.
Casting *versus* Welding, 351.
Chemical Industry, Use of Cast Iron in, 25.
Chequer Bricks, Properties of Open-Hearth, 48.
Chills, Method of Moulding, 166.
Colloidal Clay in Foundry Practice, Use of, 490.
Composition and its Effect upon the Properties of Mould and Core-Sand Mixtures at Elevated Temperatures, 288.
Compressed Air, Removal of Moisture from, 180.
Compressive Stresses on Graphite and Phosphide Eutectic, Influence of Tensile and, 248.
Considerations of Value to Foundrymen, 173.
Conveyor Chain Lubricator, 246.
Co-operation between Foundry and Melting Shop, 396.
Copper and Copper-Manganese in Grey Cast Iron, 234.
Copper, Dangers in, 140.
Copper, Quieter Times in, 475.
Copper, Rise in, 348.
Copper-Silicon Alloys, Sand Castings of, 391.
Core-Sand Mixtures at Elevated Temperatures, Composition and its Effect upon the Properties of Mould and, 288.

Correspondence:—

Adult Education, 406.
Birth Marks, 154.
British Foundry School, 266, 406.
Cricket Match, 204, 210.
Design of Sheet and Cast-Iron Parts for Vitreous Enamelling, 368.
Few Stray Thoughts, 210, 337.
Foundry Developments in Germany, 266.
Japanese Foundry Practice, 210.
Leaded Gunmetal Report, 348.
Some Factors Influencing the Production of Sound Castings, 406, 460.

Corrosion and its Relation to Grey-Iron Casting Production, 117.
Corrosion in Manufacturing Processes, 431.
Costing, Elements of Elementary, 178.
Costing Internally-Machined Small Castings, 116.
Crane Barrel with Spiral Rope Grooves, Moulding a, 181.
Crank Shafts, Cast, 473.
Crucibles, Use and Care of, 339.

D

Damping Capacity of Metals, Practical Importance of, 270.
Dense Iron Castings, Production of, 449, 471.
Design of Sheet and Cast Iron Parts for Vitreous Enamelling, 356, 440.
Desulphurising, Basic Principles Underlying the Manufacture of Foundry Pig-Iron with Special Reference to, 247, 454.
Die Castings, Finishing of, 56.
Dimensional Tolerances for Castings (with Particular Reference to Malleable Cast Iron), 99, 125, 332, 478.

District President:—

Roxburgh, J., 76.

Drying Enamelled Ware, Principles and Practice of, 436.
Durability of Refractories, 179.

E

Elastic Properties of Cast Iron, Strength and, 338.
Electric Furnaces, 42.
Electric Heat, International Congress of, 140.
Electrodeposition Processes, Development of Control in, 211.
Employment of Women and Young Persons Act, 1936, 484.

F

Facings at Atmospheric and Elevated Temperatures, Mould and Core Protective, 427.
Fatigue of Cast Iron, 9, 432.
Feeding of Castings, 510.
Firing Ground Coat Enamels, Oxidation Control for, 360.
Flame Cutting of Metals, 172.
Flexible Coupling, 162.
Fluidity, Measuring and Controlling Pouring Temperatures and, 215, 231.
Founding of Pressure Castings, 3, 95.
Foundry Management, Modern, 469.
Fracture of Pig-Iron and Cast Iron, 95.
French Foundry Technical Association, Programme of Annual Congress, 348.

G

Gas Burners for Foundry Work, Modern, 492.
Grain Size in Steel, Controlled, 257.
Graphite Size of Grey Cast Iron, Effect of Non-Metallic Inclusions on the, 272, 297.
Grinding Wheels in the Foundry, 380.
Gunmetal, Treatment for Pressure Tightness, 464.

H

Halbergerhutte, G.m.b.H., Works of the, 258.
Heat-Resisting Cast Iron in France, Recent Development of Manufacture of, 248.
Heat-Resisting Casting, Long-Life, 98.
Heavy Industries at a Glance, 148.
High-Frequency Electric Melting Furnace Equipment, 159.

I

Impact Tests, 379.
Impact Testing of Cast Iron, 175.
Industry in the U.S.S.R., Some Impressions of, 508.
Ingot Mould, World's Largest, 154.

Institute of British Foundrymen:—

Birmingham Branch, Presidential Address, 322.
Bristol Section Formed, 306.
Conference Papers, Correspondence on, 123.
East Anglian Section, Inaugural Meeting, 266.
East Midlands Branch, Presidential Address, 300.
Election of New Members, 328.
Falkirk Section, Presidential Address, 306.
Lancashire Branch, Presidential Address, 320.
London Branch, Annual Dinner, 467.
London Branch, Presidential Address, 311.
Middlesbrough Branch, Presidential Address, 328.
Newcastle - upon - Tyne Branch, Presidential Address, 342.
Oliver Stubbs' Medallists, 2.
Scottish Branch, Annual Dinner, 500.
Scottish Branch, Presidential Address, 310.
Sheffield Branch, Presidential Address, 294.
West Riding of Yorkshire Branch, Presidential Address, 340.

Institute of Metals Annual Meeting, Programme of, 20.

Institute of Vitreous Enamellers:—

Annual Conference, 204, 275.

Insulating Material, New, 232.
Insulation, Hot-Face, 47.
Insurance Regulations, State, 150.
Internal Chills, Ni-Resist for, 204.
International Foundry Congress, 59, 98, 116, 145, 172, 228, 246.
International Foundry Exhibition, 271, 289.
International Meehanite Metal Institute, Dinner, 38.
Iron and Steel Institute Annual Meeting, Programme of, 24, 154.
Iron and Steel Institute, Autumn Meeting in Dusseldorf, 255.
Iron Constants, Pure, 76.
Iron-Chrome Cast Alloys, Stainless and Heat-Resisting, 233.
Ironfounding as a Career in 1824, 60.
Ironmaking Centre, A Forgotten, 156.

670.5
V.55

J

Jar-Ramming Moulding Machine, New Type of, 61.

K

Kinetics of Oxidation in Molten Zinc, Lead, Silver and Copper, 250.

L

"L" Austenitic Iron, 74.
Lancastria Club, 229.
Lead Bronze, Properties, Use and Manufacture of, 249.
Leaded Gunmetals. Recommendations of the Non-Ferrous Sub-Committee for Two, 332, 478.

Leaders:—

Abrasive Wheels, 327.
Adult Education, 367.
Amazing Activity, 287.
American Grey Iron Castings Specification, 93.
Arms Commission's Report, 367.
Asbestos in Foundry Practice, 115.
B.C.I.R.A. Report, 347.
Birth Marks, 19.
British Foundry School's First Session, 37.
Case for Action, 133.
Cast Iron Failures Reduced, 347.
Cast Iron and Fatigue, 1.
Cast Iron in Engineering, 463.
Casting-Consciousness, 153, 171, 227.
Cheerful Review, 55.
Chemical Engineering Congress, 1, 19.
Classification of Scrap, 247.
Contra Accounts, 463.
Country Jobbing-Foundry Adoption, 93.
Early London Foundry, 133.
Export Trade, 405.
Factory Report Analysed, 209.
Founder on Holiday, 115.
Foundry Extensions, 405.
Germany, 75.
Impact Testing of Cast Iron, 171.
Industrial Pensions, 287.
Industrial Research, 327.
Institute of Vitreous Enamellers, 265.
Interlocking Industry, 445.
International Congress, 191, 227.
International Foundry Dictionaries, 305.
Iron and Steel in Competition, 483.
"Life," 385.
Machine Tool Trade, 483.
Metallic Abrasives in Sand Blasting, 425.
New Trade Associations, 499.
One Hundred Years Ago, 55.
Order Books, 37.
"Properties" are only Skin Deep, 153.
Second Session, 209.
Self Sufficing Industries, 247.
Shop Floor Analysis, 499.
Shortage of Leaders, 425.
Shortage of Men, 445.
Special Areas, 385.
Sterlingarea, 265.
Surface Development, 191.
What Wages Will Buy, 305.

Ley's Malleable Castings Company, Limited, Pulverised Fuel Equipment at, 192.
Light Alloy Castings, Recent Development in the Manufacture of, 250.
Light Alloys, Complex Interdependence of the Properties of, 213.
Light-Castings Industry, Art in the, 2.
Light-Castings Industry, Road Transport and the, 413, 459, 512.
Long-life Heat-Resisting Casting, 98.

M

Machine Cut Gears, Comparison Between Large Cut Tooth Wheels and, 158.
Magnesite and Chrome-Magnesite Bricks, Properties of, 446.
Magnesium Alloys, Recommended Practices for Sand Cast, 197.
Malleable Cast Iron, 400.
Manganese and Molybdenum Additions to Cast Iron, Study of the Influence of, 39, 66, 95.
Manganese Steels, 494.
Mechanical Properties of Cast Iron in Relation to Wall Thickness and its position in the Carbon-Iron Diagram, 248.
Mechanical Properties of Refractory Materials, 446.
Medallions Cast in Manganese Steel, 260.
Melting Furnaces for Malleable Cast Iron, 260.
Melting of Cast Iron in the Foundry, 393.
Metallurgical Developments, Recent, 8.
Mexico, Iron and Steel Works in, 94.
Micro-Plasticity in Crystals of Tin, 290.
Moisture from Compressed Air, Removal of, 180.
Molybdenum Additions to Cast Iron, Study of the Influence of Manganese and, 39, 66, 95.
Molybdenum Steels at High Temperatures, Carbon and, 105.
Mond Nickel Company, Limited, Research and Development Laboratory of the, 307.
Mould and Core-Sand Mixtures at Elevated Temperatures, Composition and Its Effect upon, 288.
Mould Transfer Wagon, 319.
Moulders' Baths, 229.
Moulding Machines? What may Foundry Practice Expect from, 247, 407, 433.
Moulding Sands in Canada, 139.
Moulds for the Glass Industry, Cast, 501.

N

New Wear Forge, 94.
Ni-Resist for Internal Chills, 204.
Non-Ferrous Foundry Problems, 489.
Non-Ferrous Metal Alloys in Germany, Development and Present Position of, 249.
Non-Metallic Inclusions in Steel and Iron, Determination of, 398.
Non-Metallic Inclusions on the Graphite Size of Grey Cast Iron, Effect of, 272, 297.
Northern Coke Research Committee, Annual Report of, 27.

O

Oil Purifiers, Portable Centrifugal, 48.
Opacifiers in Wet and Dry Enamels, 106, 183.
Order Department, 146.
Organisation of Works, Scientific, 230.
Oxidation Control for Firing Ground Coat Enamels, 360.

P

Paper Indenter Rolls of Nickel Cast Iron, 105.
Paris Foundry High School, 266.
Pattern-Making for Moulding, 386.
Patterns and their Relation to Moulding Problems, 504.
Pearlitic Malleable Cast Iron, 135.
Permanent Mould Castings in Aluminium, 470.
Petroleum (Transfer of Licences) Act, 1936, 124.
Phosphorus in Alloy Steels, 369.
Pig-Iron, New Process for Smelting Foundry, 247, 454.
Pipe Lines, Corrosion and Protection of, 88.
Pipes, Skeleton-Pattern Moulding for, 196.
Pistons, New Steel Alloy for, 217.
Pontiac Motor Company's Foundry, 306.
Pouring Temperatures and Fluidity, Measuring and Controlling, 215, 231.
Pressure Castings, Founding of, 3, 95, 134.
Promising Nickel Outlook, 410.
Pulverised Fuel Equipment at a Derby Foundry, 192.

R

Rail Spike, New Type of, 128.
Reduction of Iron, New Process for, 342.
Refractories, Durability of, 179.
Risers on Small Steel Multiple Castings, Runners and, 329.
Road Transport and the Light Castings Industry, 413, 459, 512.
Roll-Casting Process, Solidyna, 222.
Runners and Risers on Small Steel Multiple Castings, 329.

S

Sand Research, 87.
Sands, Application of Science to the Control of Foundry, 333, 397.
Scaling of Steel, 420.
Scleroscope Tests, 475.
Scrap in Aluminium Foundry Practice, Features in the Use of, 251.
Scrap Metal Situation, 300.
Selling Prices, Foundry, 50.
Sieray-Dual Lamps, 48.
Silumin Gamma, Castings in, 218.
Skeleton-Pattern Moulding for Pipes, 196.
Skilled Labour, Shortage of, 476.
Smelting Foundry Pig-Iron, New Process for, 247, 454.
Solidyna Roll-Casting Process, 222.
Sound Castings, Some Factors Influencing the Production of, 371, 373.
Spalling of Fireclay Bricks, 446.
Spelter Situation, 116.
Statistical Foundry Management, Modern, 200.
Steel Castings, Design of, 157.
Steel Castings, Manufacture of Intricate Thin-Walled, 62, 77.
Steel Castings Research Committee, Second Report of the, 267, 291, 314, 354, 377, 389, 414, 435.
Stewarts and Lloyds, Corby Works of, 270.
Stool for a Pump Motor, Moulding a Cast-Iron, 121.
Strength and Elastic Properties of Cast Iron, 338.
Students' Corner, 14.
Surface and Surface Qualities of Cast Iron, 248.
Suspended Arches for Combustion Chambers, 139.

T

Tensile and Compression Stresses on Graphite and Phosphide Eutectic, Influence of, 248.
Tension Impact Tests, 86.
Test Bar Anomalies, 458.
Test Bars, Debate on, 342.
Testing Cast Iron, Improved Method of, 163.
Thin-Walled Steel Castings, Manufacture of Intricate, 62, 77.
Thermal Expansion, Simple Apparatus for the Measurement of, 417.
Tin, Ups and Downs in, 38.
Tooth Wheels and Machine Cut Gears, Comparison Between Large Cast, 158.
Top-Charged Electric Furnaces, 124.
Toughness of Cast Irons from Transverse Stress/Strain Curves, 141.
Training of Welders, 2.
Transverse Test Bars, Improved Method of Preparing Cast Iron, 485.
Turbo-Alternator Stator Yoke Pattern, Making a Large, 509.

V

Vitreous Enamelling, Cast Iron for, 12.
Vitreous Enamelling, Design of Sheet and Cast Iron Parts for, 356, 440.
Vitreous Enamelling, Modern Tendencies in, 279, 358.

W

Wall Thickness and its Position in the Carbon-Iron Diagram, Mechanical Properties of Cast Iron with Special Reference to, 248.
Wall Thickness on the Mechanical Properties of Cast Iron, Influence of, 21, 45, 95, 331.
Weir, G. & J., Limited, Works of, 81, 290, 453.
Welders, Training of, 2.
Welding of Steel, 416.
Welding versus Casting, 351.
Wellingborough Iron Company, Limited, New Works of, 306.

AUTHORS' INDEX

A

Abell, C. D., 503.
Allen, H. V., 47.
Anderton, D. T., 491.
Andrew, F., 173.
Andrew, J. H., 354, 368, 377.
Angus, H. T., 12.
Antoine, H., 250, 469.

B

Balicki, S., 250.
Bampfylde, J. W., 417.
Bassett, H. N., 339.
Bastien, P. G., 28.
Bedworth, H. A., 391.
Bennie, H. D., 446.
Bischof, F., 248.
Boardman, H., 437.
Bollenrath, F., 411.
Bolsover, G. R., 257.
Booth, C. C., 406.
Bottomley, G. T. C., 354, 377.
Bousu, A. E., 234.

C

Chalmers, B., 290.
Chesters, J. H., 48, 446.
Chevenard, P. A. J., 230.
Claus, W., 249.
Cobb, J. W., 420.
Colbeck, E. W., 398.
Collier, R. L., 157.
Cornelius, H., 411.
Coupe, J. H., 356, 440.

D

Davis, T., 510.
Dawson, S. E., 393.
Diepschlag, E., 248.
"Dives," 210.
Donaldson, J. W., 9, 175, 338, 433.
Dunleavy, F., 489.

E

Eastham, J. H., 196.
Eastwood, L. W., 234.
Eddy, C. T., 234.
Erler, J., 252.
Everest, A. B., 204.

F

Fleury, R. de, 213.
Föppl, O., 270.
Fox, J. C., 56.
Fox-Allin, P., 81.
Francis, J. L., 337.

G

Gagnon, J. G., 475.
Girshovitch, N. G., 260.
Granjon, M. R., 2.
"Grates," 368.
Greaves, R. H., 268.
Greenhouse, H., 121.
Griffiths, W. T., 508.

H

Hall, H. F., 389.
Hallsworth, S., 279, 358.
Harbach, G. L., 141, 348.
Hartley, E., 406.
Hénon, G., 200.
Hodson, F., 342.
Höhne, F., 249.
Hope, D., 371, 373, 460.
Horton, S. A., 504.
Hosking, R. G., 266.
Hothersall, A. W., 211.
Hudson, F., 87, 117, 288.
Hudson R. F., 427.
Hunter, R., 62, 77.
Hurst, J. E., 39, 66, 95, 204, 210.
Hyslop, J. F., 179.

I

I. L., 180.
Ireland, S. L., 380.
Irmann, R., 251.

J

Jenkins, C. H. M., 105.
Jenkins, F. G., 464.
Johnson, A. E., 105.
Joseph, C. F., 215, 231.
Judson, H. H., 3, 95, 134.
Jungbluth, H., 21, 45, 95, 331.

K

Krupkowski, A., 250.
Krynitsky, A. I., 485.
Kühr, C. A. H. von Wolzogen, 88.

L

Laissus, J., 222.
Landa, A. F., 260.
Langley, H. T., 329.
Lee, L., 446.
Le Thomas, A., 248.
Linicus, W., 250.
Lohse, U., 247, 407, 433.

M

McArthur, J., 62, 77.
Maeda, R., 210.
Mann, H. C., 86.
Marker, R., 155.
Maxwell, H. L., 25.
Mellor, G. A., 105.
Moorhouse, J. R., 509.
Morgan, E., 95, 272, 297.
Moss, H. H., 172.
Murray, W., 398.
Musso, A., 342.

N

Norbury, A. L., 95, 272, 297.

O

Oldershaw, F., 181.
Oliver, F. J., 306.
"Onlooker," 38, 116, 140, 210, 300, 348, 410, 475.

P

Palmer, F. R., 42.
Paschke, M., 247, 250, 454.
Pearce, J., 396.
Pearce, J. G., 266.
Peetz, E., 454.
Percival, R. T., 354, 377.
Pfeiffer, J. Ph., 88.
Pickwell, P. G., 436.
Plant, C. H., 400.
Portevin, A. M., 28, 80.
Portier, H., 213.
Preece, A., 420.
Pullin, V. E., 435.

R

"Recorder," 116.
Richardson, G. T., 420.
Roberts, A. L., 446.
Roesch, K., 249.
Roshirt, R. J., 470.
Russell, M., 351.
Russell, P. A., 164.

S

Sachs, G., 218.
Saeger, C. M., 485.
Scheuer, E., 218.
Schneider, C. E., 8, 250.
Shepherd, H. H., 333, 397.
Simons, E. N., 50.
Smith, J., 146.
Smith, R. D., 501.
Southwell, R. V., 379.
Steele, F. E., 406.
Stuckert, L., 106, 183.
Swarup, D., 368.
Swinden, T., 48, 257, 418.

T

Tapsell, H. J., 105.
Thomas, D. J., 166.
Thum, A., 247.

U

Uhlitzsch, Prof., 248.

W

Warlow-Davies, E. J., 379.
Weaver, V. P., 391.
Williams, J. H., 449, 471.
Woodhouse, W., 195.
Wynn, E. W., 371, 373, 460.

PRINTED BY HARRISON AND SONS, LTD., LONDON.